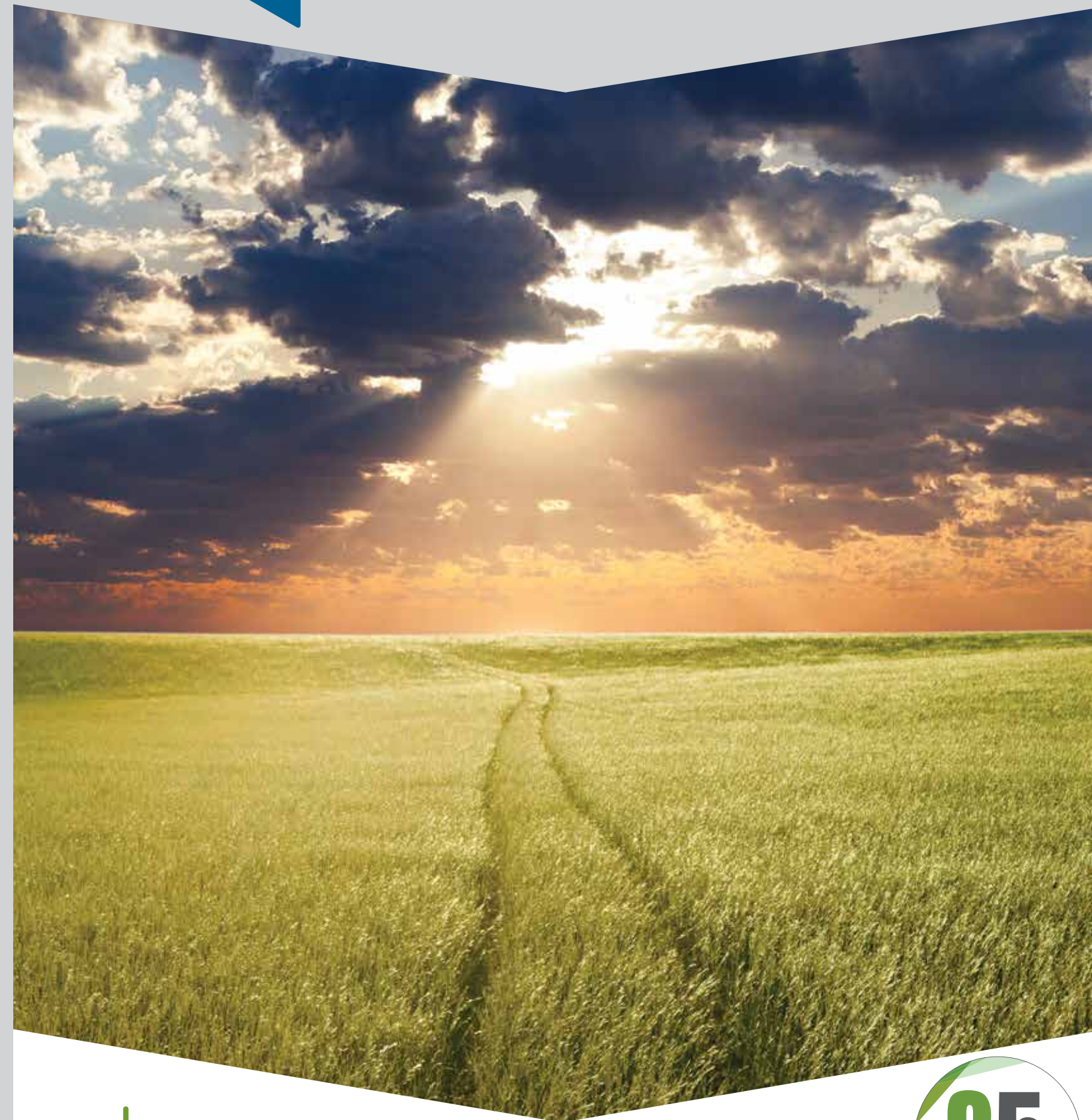




ACTAGRO
LIQUID HUMUS®

actagro®



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actagro®

Soil & Plant Health Technology Solutions™





Actagro Liquid Humus®

Actagro Liquid Humus® (with 22% Actagro Organic Acids®) is the leading soil amendment for progressive farmers interested in higher CEC, water retention, fertilizer enhancement and overall soil health resulting in increased yield, quality and return on investment.

Actagro Liquid Humus® is the only soil amendment on the market able to provide both a humin component and a carbohydrate package in addition to humic and fulvic acids. This patented four-part system is what makes Actagro Liquid Humus® superior to any other soil amendments on the market.

Actagro Organic Acids® are extracted from leonardite in a proprietary process. They are stable organic acids with a uniquely high carbon content and are designed to:

- Increase nutrient efficiency
- Increase nutrient availability
- Increase your return on investment

Actagro Organic Acids® have been shown to:

- Improve soil structure
- Improve soil water retention
- Stimulate beneficial microbes
- Protect sensitive root hairs from salt damage
- Complex and mineralize nutrients

In essence, Actagro Organic Acids® provide the nutritional building blocks for

healthy crops and increased yield. Specifically, it is the humin in Actagro Organic Acids® that becomes the key to stable carbon and improved chemistry where it matters most: In your soil. Actagro®'s ability to produce active, suspended humin makes it the only manufacturer that can deliver the true natural balance of all three major components of stable soil humus.

High organic acid levels in soils improve nutrient absorption, increase cation exchange capacity, stimulate plant and root growth, and help prevent nutrient tie-ups, resulting in higher yields and better crop quality. Replicated trials have consistently shown that Actagro®'s products containing organic acids create a positive plant growth response and increase yields.

Actagro® products are historically proven by both field experience and research work. The key to their efficiency is the unique formulation of Actagro Organic Acids.

When properly applied in a complete and balanced nutrition program, Actagro® products have repeatedly increased yields, improved quality and provided the greatest return on investment.

The same is true for Actagro Liquid Humus® which can act as:

- A Microbial Enhancer - Actagro Liquid Humus® has been shown to increase microbial activity and nutrient utilization in the soil and by the plant resulting in healthier, significantly more chemically active soil.
- A Mineralization Enhancer - Actagro Liquid Humus® gives the plant more accessibility to already existing nutrients in your soil which results in better usage and uptake. Actagro Liquid Humus® also improves soil tilth and nutrient utilization. Consequently, better utilization enhances growth and strengthens the root system giving your crop a better reach to essential nutrients.
- A Buffer Capacity Enhancer - Actagro Liquid Humus® will moderate accumulated salt effects in soil.
- A Plant Stimulant Enhancer - Actagro Liquid Humus® enhances naturally occurring processes of the plant for better natural stress and growth responses.

Actagro Liquid Humus® can increase yields and improve quality increasing your return on investment and maximizing your operational efficiency.

The Research Proven Efficacy of Actagro Liquid Humus®

Research supports the efficiency of Actagro Liquid Humus®

Actagro Liquid Humus® has been demonstrated to be a fertilizer enhancer. In recent research trials on corn, Actagro Liquid Humus®:

- Increased average silage yield by up to 6.2 tons/a
- Increased average weight per acre of corn ears
- Significantly increased stand quality and vigor

In recent research demonstrations in rice, Actagro Liquid Humus®:

- Increased yields

Trials testing the efficiency of Actagro Liquid Humus® in soybeans resulted in:

- Increased vigor
- Increased average number of pods per plant
- Higher yields

Actagro Liquid Humus® also can:

- Improve Potassium availability by 20 to 25%
- Enhance Phosphate availability
- Greatly increase Calcium availability
- Increase Micronutrient availability
- Remain stable in soil
- Provide soil buffering benefits
- Be a great food source for soil microbes

Actagro Liquid Humus® and Water Holding Capacity

Recent data shows Actagro Liquid Humus® to improve water holding capacity by as much as 10%. In a study conducted by Dr. Husein Ajwa of UC Davis, Actagro Liquid Humus® was tested in a variety of soil types for water holding capacity influence. The study was conducted by applying different concentrations of Actagro Liquid Humus® to samples of dry soil.

Once the product and soil were mixed and dried, samples were then mixed and dried again. A lab followed up to test water holding capacity with a standard, water holding capacity measurement test. In the sandy loam soil used in this study, Actagro Liquid Humus® increased that by 4-10% or 0.05 – 0.125" of water. In the clay loam soil tested, Actagro Liquid Humus® increased water holding capacity by 4-10% or 0.08 – 0.19" of water. In this case, irrigation could be delayed by as much as 2 or 3 days early in the season.

For questions or more information & data specific to any of the mentioned trials, contact your local Actagro® technical sales representative or contact us:

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